

P 9513642

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

DECLARATION AND POWER OF ATTORNEY

ATTORNEY'S DOCKET NO.  
2345/17

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name,

I believe I am an original, first, and joint inventor of the subject matter that is claimed and for which a patent is sought on the invention entitled **METHOD FOR MANUFACTURING A CALIBRATED LINEAR SCALE IN THE NANOMETER RANGE FOR TECHNICAL DEVICES USED FOR THE HIGH-RESOLUTION OR ULTRAHIGH-RESOLUTION IMAGING OF STRUCTURES AND SUCH LINEAR SCALE**, the specification of which was filed on February 6, 1997 as U.S. Serial No. 08/795,622.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, § 1.56(a).

PRIOR FOREIGN APPLICATION(S)

I hereby claim foreign priority benefits under Title 35, United States Code, § 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

COUNTRY	APPLICATION NUMBER	DATE OF FILING (day, month, year)	DATE OF ISSUE (day, month, year)	PRIORITY CLAIMED UNDER 35 U.S.C. § 119
Germany	196 04 348.4	07/02/96		YES

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorneys:

Richard L. Mayer (Reg. No. 22,490)

William C. Gehris (Reg. No. 38,156)

SEND CORRESPONDENCE, AND DIRECT TELEPHONE CALLS TO:

Richard L. Mayer  
KENYON & KENYON  
One Broadway  
New York, New York 10004  
(212) 425-7200 (phone)  
(212) 425-5288 (facsimile)

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I declare that all statements made herein of my own knowledge are true and all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under § 1001 of Title 18 of the United States Code and that such willful statements may jeopardize the validity of the application or any patent issuing thereon.

FULL NAME OF INVENTOR	FAMILY NAME <b>Loesch</b>	FIRST GIVEN NAME <b>Rainer</b>	SECOND GIVEN NAME
RESIDENCE & CITIZENSHIP	CITY <b>68766 Hockenheim</b>	STATE OR FOREIGN COUNTRY <b>Germany</b>	COUNTRY OF CITIZENSHIP <b>Germany</b>
POST OFFICE ADDRESS	POST OFFICE ADDRESS <b>Schillerstrasse 2</b>	CITY <b>68766 Hockenheim</b>	STATE & ZIP CODE/COUNTRY <b>Germany</b>
Signature <i>Rainer Loesch</i>		Date <i>26.03.97</i>	
FULL NAME OF INVENTOR	FAMILY NAME <b>Hillmer</b>	FIRST GIVEN NAME <b>Hartmut</b>	SECOND GIVEN NAME
RESIDENCE & CITIZENSHIP	CITY <b>64287 Darmstadt</b>	STATE OR FOREIGN COUNTRY <b>Germany</b>	COUNTRY OF CITIZENSHIP <b>Germany</b>
POST OFFICE ADDRESS	POST OFFICE ADDRESS <b>Peter-Behrens-Strasse 12</b>	CITY <b>64287 Darmstadt</b>	STATE & ZIP CODE/COUNTRY <b>Germany</b>
Signature		Date	
FULL NAME OF INVENTOR	FAMILY NAME <b>Schlapp</b>	FIRST GIVEN NAME <b>Winfried</b>	SECOND GIVEN NAME
RESIDENCE & CITIZENSHIP	CITY <b>64331 Weiterstadt</b>	STATE OR FOREIGN COUNTRY <b>Germany</b>	COUNTRY OF CITIZENSHIP <b>Germany</b>
POST OFFICE ADDRESS	POST OFFICE ADDRESS <b>Friedhofsweg 11</b>	CITY <b>64331 Weiters</b>	STATE & ZIP CODE/COUNTRY <b>Germany</b>
Signature		Date	

I declare that all statements made herein of my own knowledge are true and all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under § 1001 of Title 18 of the United States Code and that such willful statements may jeopardize the validity of the application or any patent issuing thereon.

FULL NAME OF INVENTOR	FAMILY NAME <b>Loesch</b>	FIRST GIVEN NAME <b>Rainer</b>	SECOND GIVEN NAME
RESIDENCE & CITIZENSHIP	CITY <b>68766 Hockenheim</b>	STATE OR FOREIGN COUNTRY <b>Germany</b>	COUNTRY OF CITIZENSHIP <b>Germany</b>
POST OFFICE ADDRESS	POST OFFICE ADDRESS <b>Schillerstrasse 2</b>	CITY <b>68766 Hockenheim</b>	STATE & ZIP CODE/COUNTRY <b>Germany</b>
Signature		Date	
FULL NAME OF INVENTOR	FAMILY NAME <b>Hillmer</b>	FIRST GIVEN NAME <b>Hartmut</b>	SECOND GIVEN NAME
RESIDENCE & CITIZENSHIP	CITY <b>64287 Darmstadt</b>	STATE OR FOREIGN COUNTRY <b>Germany</b>	COUNTRY OF CITIZENSHIP <b>Germany</b>
POST OFFICE ADDRESS	POST OFFICE ADDRESS <b>Peter-Behrens-Strasse 12</b>	CITY <b>64287 Darmstadt</b>	STATE & ZIP CODE/COUNTRY <b>Germany</b>
Signature <i>M. Hillmer</i>		Date <b>26/03/97</b>	
FULL NAME OF INVENTOR	FAMILY NAME <b>Schlapp</b>	FIRST GIVEN NAME <b>Winfried</b>	SECOND GIVEN NAME
RESIDENCE & CITIZENSHIP	CITY <b>64331 Weiterstadt</b>	STATE OR FOREIGN COUNTRY <b>Germany</b>	COUNTRY OF CITIZENSHIP <b>Germany</b>
POST OFFICE ADDRESS	POST OFFICE ADDRESS <b>Friedhofsweg 11</b>	CITY <b>64331 Weiterstadt</b>	STATE & ZIP CODE/COUNTRY <b>Germany</b>
Signature <i>W. Schlapp</i>		Date <b>1.4.97</b>	

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FULL NAME OF INVENTOR	FAMILY NAME <b>Poecker</b>	FIRST GIVEN NAME <b>Armin</b>	SECOND GIVEN NAME
RESIDENCE & CITIZENSHIP	CITY <b>64625 Bensheim</b>	STATE OR FOREIGN COUNTRY <b>Germany</b>	COUNTRY OF CITIZENSHIP <b>Germany</b>
POST OFFICE ADDRESS	POST OFFICE ADDRESS <b>Maerkerwaldstrasse 3</b>	CITY <b>64625 Bensheim</b>	STATE & ZIP CODE/COUNTRY <b>Germany</b>
Signature <i>Armin Poecker</i>		Date <i>March 26, 1997</i>	
FULL NAME OF INVENTOR	FAMILY NAME <b>Betz</b>	FIRST GIVEN NAME <b>Walter</b>	SECOND GIVEN NAME
RESIDENCE & CITIZENSHIP	CITY <b>64342 Seeheim-Jugenheim</b>	STATE OR FOREIGN COUNTRY <b>Germany</b>	COUNTRY OF CITIZENSHIP <b>Germany</b>
POST OFFICE ADDRESS	POST OFFICE ADDRESS <b>Im Strehling 6</b>	CITY <b>64342 Seeheim-Jugenheim</b>	STATE & ZIP CODE/COUNTRY <b>Germany</b>
Signature <i>Walter Betz</i>		Date <i>March 26, 1997</i>	
FULL NAME OF INVENTOR	FAMILY NAME <b>Goebel</b>	FIRST GIVEN NAME <b>Rainer</b>	SECOND GIVEN NAME
RESIDENCE & CITIZENSHIP	CITY <b>55129 Mainz</b>	STATE OR FOREIGN COUNTRY <b>Germany</b>	COUNTRY OF CITIZENSHIP <b>Germany</b>
POST OFFICE ADDRESS	POST OFFICE ADDRESS <b>Hebbelstrasse 85</b>	CITY <b>55129 Mainz</b>	STATE & ZIP CODE/COUNTRY <b>Germany</b>
Signature <i>Rainer Goebel</i>		Date <i>03.24.76</i>	

ASSIGNMENT

WHEREAS, we,

Rainer Loesch  
Schillerstrasse 2  
68766 Hockenheim  
Germany  
Citizenship: German

and

Hartmut Hillmer  
Peter-Behrens-Strasse 12  
64287 Darmstadt  
Germany  
Citizenship: German

and

Winfried Schlapp  
Friedhofsweg 11  
64331 Weiterstadt  
Germany  
Citizenship: German

and

Armin Poecker  
Maerkerwaldstrasse 3  
64625 Bensheim  
Germany  
Citizenship: German

and

Walter Betz  
Im Strehling 6  
64342 Seeheim -Jugenheim  
Germany  
Citizenship: German

and

Rainer Goebel  
Hebbelstrasse 85  
55129 Mainz  
Germany  
Citizenship: German

have made new and useful improvements in a **METHOD FOR MANUFACTURING A CALIBRATED LINEAR SCALE IN THE NANOMETER RANGE FOR TECHNICAL DEVICES USED FOR THE HIGH-RESOLUTION OR ULTRAHIGH-RESOLUTION IMAGING OF STRUCTURES AND SUCH LINEAR SCALE**, for which an application for Letters Patent was filed on February 6, 1997, as U.S. Serial No. 08/7951,622, and

WHEREAS **Deutsche Telekom AG**, having a place of business at **Friedrich-Ebert-Allee 140, 53113 Bonn, Germany** and who, together with its successors and assigns, is hereinafter called "Assignee," is desirous of acquiring the title, rights, benefits, and privileges hereinafter recited,

NOW, THEREFORE, for valuable consideration furnished by Assignees to us, receipt and sufficiency of which we hereby acknowledge, we hereby, without reservations:

1. Assign, transfer, and convey to Assignees the entire right, title, and interest in and to said inventions and discoveries, said application for Letters Patent of the United States of America, any and all other applications for Letters Patent on said inventions and discoveries in any and all countries, including all divisional, renewal, substitute, continuation, and Convention applications based in whole or in part upon said inventions or discoveries, or upon said applications, and any and all Letters Patent, reissues, and extensions of Letters Patent granted for said inventions and discoveries or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said discoveries, said applications, and said Letters Patent.

2. Authorize Assignees to file patent applications in any or all countries for any or all of said inventions and discoveries in our name or in the name of Assignees or otherwise as Assignees may deem advisable, under an International Convention or otherwise.

3. Authorize and request the Commissioner of Patents and Trademarks of the United States of America and the empowered officials of all other governments to issue or transfer all said Letters Patent to Assignees, as assignees of the entire right, title, and interest therein or otherwise as Assignees may direct.

4. Warrant that we have not conveyed to others any right, title, or interest in said inventions, discoveries, applications, or patents or any license to use the same or to make, use, or sell anything embodying or utilizing any of said inventions or discoveries; that we have good right to assign the same to Assignees without encumbrance; and that we are aware of no claim to the contrary.

5. Bind our heirs, legal representatives, and assigns, as well as ourselves to do, upon Assignees' request and at Assignees' expense, but without additional consideration to us or them, all acts reasonably serving to assure that the said inventions and discoveries, the said patent applications, and the said Letters Patent shall be held and enjoyed by Assignees as fully and entirely as the same could have been held and enjoyed by us, our heirs, legal representatives, and assigns if this assignment had not been made; and

particularly to execute and deliver to Assignees all lawful application documents including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by Assignees; to communicate to Assignees all facts known to us relating to said inventions and discoveries or the history thereof: to furnish Assignees with any and all documents, photographs, models, samples, and other physical exhibits in our control or in the control of our heirs, legal representatives, or assigns which may be useful for establishing the facts of our conceptions, disclosures, and reduction to practice of said inventions and discoveries; and to testify to the same in any interference, arbitration, or litigation.

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 26 day of March, 1997.

R. Loesch

Rainer Loesch

WITNESSED BY:

Johannes Schmitt  
Name

79115 Freiburg

Markgrafenstr. 47  
Address

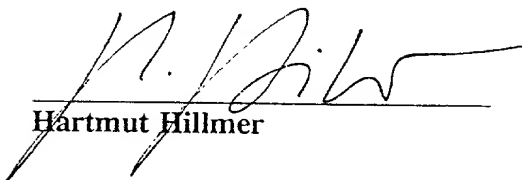
WITNESSED BY:

K. Gotscher Konrad  
Name

Blumenstr. 15a

79194 Gundelfingen  
Address

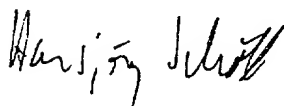
IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 26 day  
of March, 1997.

  
Hartmut Hillmer

WITNESSED BY:

Hansjörg Schöll  
Name

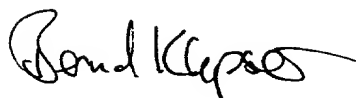
Eulerweg 2  
64347 Griesheim  
Address



WITNESSED BY:

Bernold Klepser  
Name

Wissenbacher Str. 82  
69151 Neckargemünd  
Address



005221 2605/90



IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 1 day  
of April, 1997.

W. Schlapp  
Winfried Schlapp

WITNESSED BY:

Renate Sieger  
Name

Nibelungenstr. 171

64625 Bensheim  
Address

Renate Sieger

WITNESSED BY:

Hansjörg Schöll  
Name

Eulerweg 2

64347 Griesheim  
Address

Hansj. Schöll

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IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 26 day  
of March, 1997.

Armin Poecker  
Armin Poecker

WITNESSED BY:

Helga Janning  
Name

Bartningstr 13

64289 Darmstadt  
Address

Helga Janning

WITNESSED BY:

Peter Hellmuth  
Name

Breslauer Str. 3

64342 Seeheim  
Address

Peter Hellmuth

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Table 1. Demographic characteristics of the study population	
Age (years)	50.0 ± 10.0
Gender	
Male	50.0%
Female	50.0%
Education (years)	12.0 ± 2.0
Marital status	
Married	80.0%
Single	20.0%
Occupation	
Professional	30.0%
Managerial	20.0%
Technical	10.0%
Skilled	20.0%
Unskilled	20.0%
Religion	
Muslim	80.0%
Hindu	10.0%
Christian	10.0%
Other	0.0%
Family size	3.0 ± 1.0
Income (USD/month)	1000.0 ± 500.0
Health status	
Good	80.0%
Fair	10.0%
Poor	10.0%

Peter Hellmuth

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 26 day  
of March, 1997.

Rainer Goebel  
Rainer Goebel

WITNESSED BY:

Helga Janning  
Name

Bartningstr. 13

64289 Darmstadt  
Address

Helga Janning

WITNESSED BY:

Peter Hellmuth  
Name

Breslauer Str. 3

64342 Seeheim  
Address

Peter Hellmuth

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